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~~3d animation~~

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problems and

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theorem. 1. A container filled with water and there is a hole, as shown in the figure below. If acceleration due to gravity is 10 ms^{-2} , what is the speed of water through that hole? Known : Height

$$(h) = 85 \text{ cm} - 40 \text{ cm} = 45 \text{ cm} = 0.45 \text{ meters.}$$

Acceleration due to

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gravity (g) = 10 m/s²

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Name _____ Multiple
Choice Questions 1.

Two substances

mercury with a

density 13600 kg/m³

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and alcohol with a density 0.8 kg/m^3 are selected for an

experiment. If the

experiment requires

equal masses of each

liquid, what is the ratio

of alcohol volume to

the mercury volume?

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▯ problems and solutions. Fluid statics
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kg and 9 kg separated
by a distance of 5...

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Solution: The
hydraulic fluid is at the
same level so $\rho_1 = \rho_2$.
or A force F_1 applied
at A_1 is multiplied by
the ratio of the areas
so $F_2 = (A_2/A_1)F_1$ The

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lifting force F_2 can
also be rewritten as
 $F_2 = A_2(F_1/A_1 = A_2 \rho_1)$,
and putting in the
numbers

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Solution: This
problem consists of

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two parts. Part 1. In the first part of the problem, we have a sphere below the surface of water.

There is a rope attached to the sphere. This rope keeps the sphere in equilibrium. We need to write down the equilibrium condition. There are three forces acting on the sphere

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(see figure below): -

gravitational force,
pointing downwards.

At this point we do not
know the mass of the
sphere and the
magnitude of the
gravitational force;

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Field): Example

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Why do objects like
wood float in water?

Does it depend on
size? Create a

custom object to
explore the effects of

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per unit time and is given by Av , where A is the cross-sectional area of the tube and v is the fluid speed.

Bernoulli's equation is used to solve some problems. It relates conditions (density, fluid speed, pressure,

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and height above
Earth) at one point in
the steady flow of a
nonviscous,
incompressible fluid to
conditions at another
point.

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flow a. Speed of
sound b. Isentropic
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area c. Normal shock
waves d. Use of
tables to solve
problems in above
areas 12. Non-
dimensional numbers,
their meaning and use
a. Reynolds number

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This physics video tutorial provides a basic introduction into pressure and fluids. Pressure is force divided by area. The pressure due to weight of a fluid ...

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fluids and elasticity .
Part 1 Problem 1. A
cylindrical vessel of
radius 0.1 meter is
filled with water to a
height of 0.5 meter. It
has a capillary tube
0.15 meter long and
0.0002 meter radius
fixed horizontally at its

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bottom. Find the time

in which the water
level will fall to a
height of 0.2 meter.
Solution . Problem 2.

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A hypodermic syringe

filled with normal

saline solution has an

inner barrel diameter

of 10.4 mm and an

inner needle diameter

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of 0.260 mm. How fast does the saline solution exit the needle orifice if the plunger moves at 1 mm/s? What pressure at the plunger head is needed to overcome an intravenous pressure of 1.9 kPa (14 torr)?

Fluid Flow - Problems

□ The Physics

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